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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Keith Nugent et al.

Art Unit : Unknown

Serial No. : 09/830,393

Examiner : Unknown

Filed : April 25, 2001

Title : PHASE DETERMINATION OF A RADIATION WAVE FIELD

Commissioner for Patents  
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Applicant submits the references listed on the attached form PTO-1449, copies of which are enclosed.

This statement is being filed within three months of the filing date of the application or before the receipt of a first Office action on the merits. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: June 14, 2001

William E. Booth  
William E. Booth  
Reg. No. 28,933

Fish & Richardson P.C.  
225 Franklin Street  
Boston, MA 02110-2804  
Telephone: (617) 542-5070  
Facsimile: (617) 542-8906

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CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, Washington, D.C. 20231.

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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 13113-002001	Application No. 09/830,393
<b>Information Disclosure Statement by Applicant</b> (use several sheets if necessary)		Applicant Keith Nugent et al.	
		Filing Date April 25, 2001	Group Art Unit

<b>U.S. Patent Documents</b>							
Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	4,953,188	08/28/90	Siegel et al.	378	43	
	AB	5,004,918	04/02/91	Tsuno et al.	250	311	
	AC	5,298,747	03/29/94	Ichikawa et al.	250	306	
	AD	5,717,291	02/03/98	Momose et al.	378	084	
	AE						

<b>Foreign Patent Documents or Published Foreign Patent Applications</b>							
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation
							Yes      No
	AF	WO 96/31098	10/03/96	PCT			
	AG	WO 98/28950	07/02/98	PCT			
	AH						

<b>Other Documents (include Author, Title, Date, and Place of Publication)</b>		
Examiner Initial	Desig. ID	Document
	AI	Barty et al., "Quantitative Optical Phase-Amplitude Microscopy", Conference paper, XI Conference of the Australian Optical Society, (December 1997)
	AJ	Barty et al., 'Quantitative Optical Phase Microscopy', (1998), Opt. Lett. (in press)
	AK	Barty et al., "Quantitative Optical Phase-Amplitude Microscopy", Conference paper, Focus on Microscopy , (April 1998)
	AL	Gureyev et al., "Partially coherent fields, the transport-of-intensity equation, and phase uniqueness" J. Opt.Soc.Am. Vol 12 1942-1946
	AM	Gureyev et al., "Phase retrieval with the transport-of- intensity equation. II. Orthogonal series solution for nonuniform illumination", J. Opt. Soc. Am . Vol 13 1670-1682
	AN	Gureyev et al., "Phase retrieval with the transport-of-intensity equation: matrix solution with the use of Zernlike polynomials", J. Opt. Soc. Am. Vol 12 1932-1941
	AO	Gureyev et al., "Rapid phase retrieval using the Fast Fourrier Transform" Adaptive Optics, Vol 23, 1995 Technical Digest Series (Optical Society of America, Washington, D.C., 1995) pp 77-79
	AP	Gureyev et al., "Rapid quantitative phase imaging using the transport of intensity equation", (1997), 133 Opt. Comm. 339-346
	AQ	N. Streibl, "Phase imaging by the transport of intensity equation", (1984), 49 Opt. Comm. 6
	AR	Nugent et al., "Quantitative phase imaging using hard X-rays", (1996), 77 Phys. Rev. Lett. 2961-2964
	AS	Paganin et al., "Noninterferometric phase imaging with partially coherent light", (1998), 80 Phys. Rev. Lett. 2586-2589

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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	AT	Paganin et al., "Non-interferometric phase imaging with partially coherent radiation", Conference paper, XI Conference of the Australian Optical Society, (December 1997)
	AU	Wilkins et al., "Phase-contrast imaging using polychromatic hard X-rays", (1996), 384 Nature 335

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